

IN REPLY REFER TO:

United States Department of the Interior

MINERALS MANAGEMENT SERVICE CENTRAL REGION

Oil and Gas Operations 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

July 30, 1982

Shell Oil Company
P.O. Box 831
Houston, Texas 77001

Re: Application for Permit to Drill Well No. 21-19
Section 19-T39S-R19E
San Juan County, Utah
Lease No. U-29967

Gentlemen:

Enclosed is your copy of the approved referenced Application for Permit to Drill.

Due to the environmental sensitivity of the area, it appears warranted that a joint onsite pre-construction conference, including the Bureau of Land Management, you and your construction personnel, and Minerals Management Service personnel, be held to be certain that all parties understand how the operations will be conducted. Please contact this office when you are ready to start operations so that a joint onsite pre-construction meeting can be coordinated and established.

Sincerely,

E. W. Guynn District Oil & Gas Supervisor



↑ orm 9-331 C (May 1963)

SUBMIT IN TRIP

Form approved C 12211 C 12 TO PORT BURGARY NO MY 1495 C 11

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NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A **DATED 1/1/80**

State Oil- Das

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company_	Sheel	aix Co	mpany	Well	No.	21-19-
	Sec. 1		• •	Tongo	No	W- 29967
LOCALIOII	Luc. 1	7-575-7	7 =	Lease	140.	11-2/10/

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

- 1. There shall be no deviation from the proposed drilling and/or workover Safe drilling and operating practices must be obprogram as approved. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed Preventers will be inspected and operated at least daily to or abandoned. insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
- 2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
- 3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Supervisor must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Supervisor's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Supervisor's office on a frequency and form or method as may be acceptable to the District Supervisor.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with the U.S. Geological Survey Accounting, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Supervisor. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Supervisor.

- be the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
- 6. Significant surface values (are) (dre not) involved at this location. Accordingly, you (must) (head not) notify the Surface Management Agency at least (PM) (48) hours prior to commencing field operations to allow the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

		Management			is:	
Offic	e Phone	: 801-5	87-23	201.		Phone:
City:		montue	lb_		State	e: Ytak

The Minerals Management Service office address and contacts are:

Address: 2000 Administration Building, 1745 West 1700 South, SLC, Utah 84104-3884

Office Phone: (801) 524-4590

District Supervisor E. W. Guynn Home Phone: (801) 582-7042
District Drilling Engineer W. P. Martens Home Phone: (801) 466-2780
District Production Engineer R.A. Henricks Home Phone: (801) 484-2294

District Production Engineer R.A. Henricks Home Phone: (801) 484-2294

Staff Engineer A.M. Raffoul Home Phone: (801) 484-2638

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operation Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

- 8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Supervisor, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- 9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Supervisor's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
- 10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact the Surface Management Agency 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
- 11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.

12.	that, must will this on wh	Application for Permit to Drill is approved subject to the requirement should the well be successfully completed for production, this office be notified when it is placed in a producing status. Such notification be by telegram or other written communication, and must be received in office by not later than the first business day next following the date ich the well is placed on production. The notification shall provide, as imum, the following informational items:
	a.	Operator name, address and telephone number.
	b.	Well name and number.
	c.	Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
	d.	Date well was placed in a producing status.
	e .	The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.
	f.	The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
	g.	If appropriate, the unit agreement name, number and participating area name.
	h.	If appropriate, the communitization agreement number.
13.		

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

Shell Oil Company Well No. 21-19 Section 19-T39S-R19E San Juan County, Utah Lease No. U-29967

Supplemental Stipulations:

- 1. Before drilling begins, the following signs will be posted on the road leading to the site:
 - a. 15 mph Speed Limit
 - b. Heavy Truck Traffic
 - c. Dangerous Curves
- 2. During reclamation, all disturbed areas will be scarified with the contour to a depth of 12 inches.
- 3. All engines will be muffled if production results.
- 4. A dry hole marker will not be installed.
- 5. For oil and gas facilities to be "substantially unnoticeable" (criteria to be met by the 1991 date when the Secretary of the Interior makes his Wilderness Recommendations to the President), the following stipulations will have to be met:
- a. All production facilities other than wellhead and transportation pipeline must be removed; this includes tank batteries, dehydrators and similar facilities.
- b. The production pad must be recontoured, covered with topsoil, and have vegetation established on the entire pad. A large, flat area normally maintained for a "work-over" drill rig will not be allowed under non-impairment standards.
- c. The wellhead must be painted to harmonize with the surrounding area.
- d. Any pipeline right-of-way must be completely revegetated and screened to eliminate its linear nature when viewed from a nearby ground level vantage point. This would require, in most cases, revegetation with mature plants such as trees and shrubs, as well as routing the right-of-way with numerous bends.

ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included a summittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
 - (3) All_disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

August 4, 1982 Shell Oil Company P. O. Box 831 Houston, Texas 77001 Attm: G. M. Jobe Dear Mr. Jobe: Our records indicate you have filed federal application for permit to drill Well No. 21-19, but have not yet filed application with the State of Utah. Applications must be approved by the State in addition to federal approval in order to commence drilling. Please provide the necessary application for permit to drill, or otherwise advise on the status of the permit. A copy of the federal application with attachments and cover letter is acceptable. Respectfully, Norm Stout NS/as

Shell Oil Company



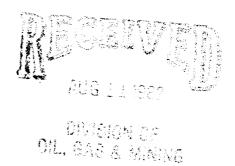
P.O. Box 831 Houston, Texas 77001

August 9, 1982

Mr. Ronald J. Firth Chief Petroleum Engineer State of Utah, Div of Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114

Dear Mr. Firth:

SHELL-USA 21-19 SECTION 19, T39S-R19E SAN JUAN COUNTY, UTAH



Enclosed is a copy of the approved federal drill permit and survey plat for the subject exploratory test. As illustrated on the plat, Shell centrols all acreage within a 660 foot radius of the staked location. It is our understanding that this permit will serve and be accepted as approved State of Utah drill permit.

The drill site is inside a BLM Wilderness Study Area. The site was carefully selected in accordance with the desires of the BLM representative to minimize the environmental impact to the area. The location was placed in a sagebrush opening adjacent to an existing county road. Minimum impact to the area will be created by drilling at this location. A standard location would require cutting and clearing many trees and constructing an access road.

Based on the environmental concerns, we hereby request an exception to Rule C-3 (General Well Spacing Requirements) of the State of Utal Oil and Gas Conservation General Rules and Regulations for the subject location.

In addition to our August 2, 1982 letter concerning the USA 21-17, Section 17, T40S-R19E (copy enclosed), we inform you that Shell controls all acreage within a 660 foot radius of the No. 21-17 geological test. An illustrative plat is enclosed.

Should additional information or clarification be necessary, please contact me at (713) 870-3216.

Yours very truly,

D. M. O.665

G. M. Jobe

Administrator, Regulatory-Permits

Rocky Mountain Division

LAM:beb

Enclosures

SUBMIT IN TRIPL

Budget! Bureau		42-R1425 1
0!L&{	AS.	OPERATIONS

TOTAL SEPTIONS	4 ~		•••
Budget Bureau	'NY -	AD DIAGE	_ 1:
Budget! Bureau	17U.	42-R1420.	
		COLUE	
	•	1 4 1 1/ 20	

UNITED STATES DEPARTMENT OF THE I			CIL 3	STRVIOL RGAS OPERATIONS
GEOLOGICAL SURV	U-29967	AME SERIE NO.		
APPLICATION FOR PERMIT TO DRILL, I	DEEPEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTI	FOR THE NEWS
DRILL X DEEPEN	PLUG BAC	к 🗆 🏻	7. UNIT AGREEMENT	TALEKE EITY, UTAH
b. TYPE OF WELL OIL X GAS WELL OTHER	SINGLE X MULTIPI	. _	8. FARM OR LEASE NA	AME .
2. NAME OF OPERATOR			USA	
Shell Oil Company 3. ADDRESS OF OPERATOR			9. WELL NO. 21-19	
P. O. Box 831, Houston, Texas 77001 At	tn. G. M. Jobe Rm 54	168WCK	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance wi		•	Wildcat	
1190' FNL & 2490' FWL Section 19 At proposed prod. zone	NENW		11. SEC., T., B., M., OB NEN 4 ^{SUNYEY} 4 ^B S T39S R19E	ection 19
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POS	T OFFICE*		12. COUNTY OR PARISI	,
16 miles north of Mexican Hat, Utah	16. NO. OF ACRES IN LEASE	17 NO 0	San Juan	Utah
LOCATION TO NEAREST 1190' PROPERTY OR LEASE LINE, FT.	2512.28		us well 40	
18. DISTANCE FROM PROPOSED LOCATION*	19. PROPOSED DEPTH	20. ROTAR	Y OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	2400'	Ro	tary	4 - 4
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6279 G	iR	\$ 1 m	22. APPBOX. DATE W	onk will start*
23. PROPOSED CASI	NG AND CEMENTING PROGRA	.M -		
SIZE OF HOLE SIZE OF CASING WEIGHT PER F	OOT SETTING DEPTH	<u> </u>	QUANTITY OF CEMI	ENT
				-
				<u> </u>
			•	
SEE 10 POINT PLAN	•			
ATTACHMENTS: 10 POINT PLAN - ATTACHMENT A BOP EQUIPMENT - ATTACHMENT B CHOKE MANIFOLD - ATTACHMENT C SURFACE USE PLAN - ATTACHMENT SURVEY PLAT - ATTACHMENT VICINITY TOPO MAP - ATTACHMENT DRILL PAD LAYOUT - ATTACHMENT	OF UTA OIL, GA DATE: BY:	H DIV	THE STATE	OILS GAS OPERATIONS AND RECEIVED TO A STANKE OF THE STANK
DRILL PAD CROSS SECTIONS - AT		2:		:
PRODUCTION FACILITIES LAYOUT ARCHAEOLOGY REPORT FORWARDED SEPARATE COVER	TO MINERALS MANAGEME			
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to dee zone. If proposal is to drill or deepen directionally, give pertinen preventer program, if any.				
SIGNED S. M. Joba	Administrator Regulatory-Permi	ts :	DATE 6/14/	82
(This space for Federal or State office use)				

FOR E. W. GUYNN

TITLE DISTRICT OIL & GAS SUPERVISOR

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _

JUL 2 9 1982

COMPANY SHELL OIL COMPANY	
LEASE USA WELL NO. 21-19	
San Juan County, Utah	
LOCATION 1190'FNL 2490'FWL	
- ELEVATION 6279 ungraded ground	•
Wilderness Shell Oil Company controls oil & gas leases within this are	
==== 21,901	
Sec. Study Area	
19	
SCALE-4 INCHES EQUALS 1 MILE	
THIS IS TO CERTIFY THAT THE ABOVE THE WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEY YEARDE BY ME TINDER MY SUPER- VISION AND THAT THE SAME RES TRUE AND ORRECT TO THE BEST OF MY KNOWLETS! AND BELIEF	
SEAL: Serveyor.	

Nay 18

TOUR HE TON N. M.

** FILE NOTATIONS **

DATE: 8-18-82
OPERATOR: Shell Oil
WELL NO: USA 21-19
Location: Sec. NENU 19T. 395 R. 19E County: SAN JUNU
File Prepared: Entered on N.I.D:
Card Indexed: Completion Sheet: U
API Number <u>43-037-30853</u>
CHECKED BY:
Petroleum Engineer:
Director:
Administrative Aide: Jed lease & bond - request for topor C-3-c obstance from Q4 sub-logarday line outlines in blue on left side of file.
APPROVAL LETTER: <u>red</u> of
Bond Required: Survey Plat Required:
Order No O.K. Rule C-3
Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site
Lease Designation [Fed] Plotted on Map
Approval Letter Written
Hot Line P.I.

August 18, 1982

Shell Oil Company P. O. Box 831 Houston, Texas 77001

Attention: Mr. G. M. Jobe

RE: Well No. USA 21-19

NENW Sec. 19, T. 39S, R. 19E

San Juan County, Utah

Dear Mr. Jobe:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are herby requested to immediately notify the following:

RONALD J. FIRTH - Engineer

CLEON B. FEIGHT - Director

Office: 533-5771

OR

Office: 533-5771 466-4455

Home: 571-6068 Home:

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30803.

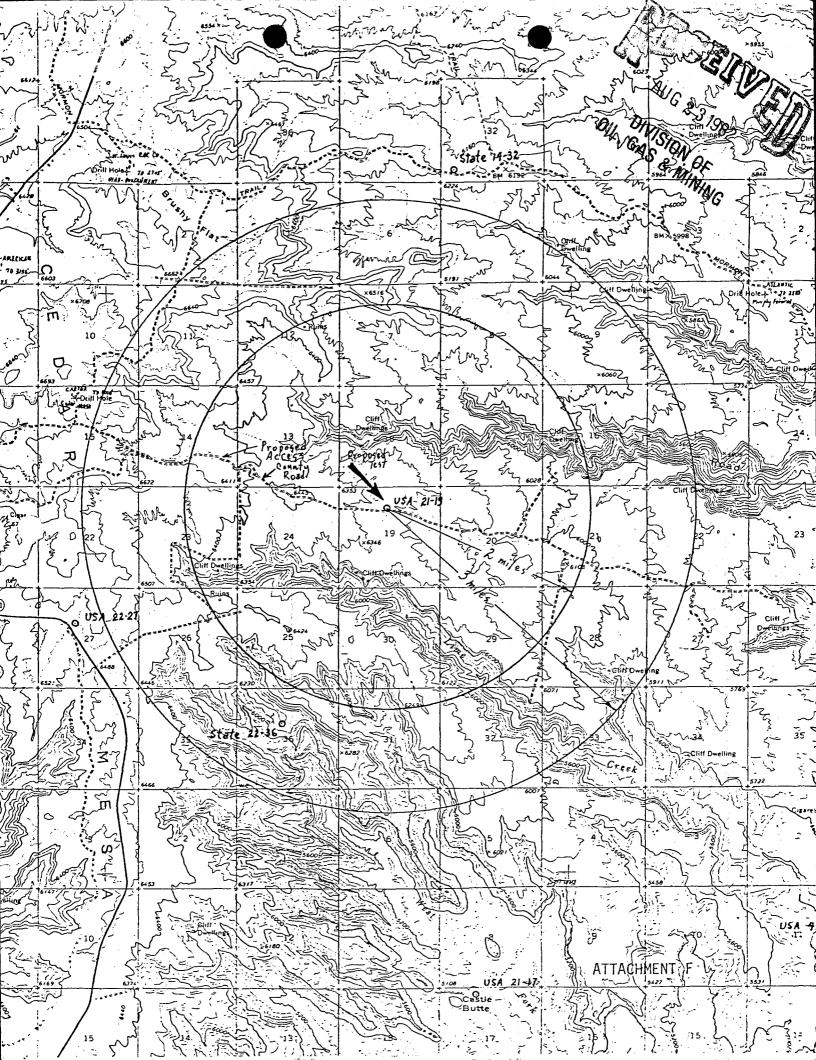
Sincerely,

Norman C. Stout

Administrative Assistant

cc: Minerals Management Service

Enclosure



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SHELL OIL COMPAN	Y
WELL NAME: USA 21-19	
SECTION NENW 19 TOWNSHIP 39S RAI	NGE 19E COUNTY San Juan
DRILLING CONTRACTOR Brinkerhoff Signa	.1
RIG #	
SPUDDED: DATE 8-23-82	
TIME 2:30 PM	
HOW Rotary	
Potential construct	
DRILLING WILL COMMENCE	
REPORTED BY Barbara Bernard	
TELEPHONE #713-870-3218	
DATF 8-24-82	SIGNET) Cari F

NOTICE OF SPUD
Company: Shell Oil
Caller: Barbara Bernard
Phone: 713-870-3218
Well Number: <u>USA 21-19</u>
Location: Sec 19 7. 395. R. 19E
County: San Tuan State: Utah
Lease Number: U-29967
Lease Expiration Date:
Unit Name (If Applicable):
Date & Time Spudded: 2:30 PM 8/23/82
Dry Hole Spudder/Rotary:
Details of Spud (Hole, Casing, Cement, etc.)
Rotary Rig Name & Number: Brinkerhof #79
Approximate Date Rotary Moves In: 8/23/82
FOLLOW WITH SUNDRY NOTICE
Call Received By: Becky George
Date: 8/24/82

well File State Oil+Gasv Vernal mms Teresa Diane

Shell Oil Company



P.O. Box 831 Houston, Texas 77001

August 25, 1982

Mr. Michael T. Minder, Geological Engineer State of Utah Division of Oil, Gas and Mining 4241 State Office Building Salt Lake City, UT 84116

Dear Mr. Minder:

SHELL-USA 21-19 SECTION 19, T39S-R19E SAN JUAN COUNTY, UTAH

As follow-up to the telephone conversation between Cari Furse of your office and Barbara Bernard of our office on August 24, 1982 whereby you were given verbal notification of the spud date of subject well, this is written notification that USA 21-19 spudded August 23, 1982.

Yours very truly,

S.M. gobz

G. M. Jobe Administrator, Regulatory-Permits Rocky Mountain Division

beb

RECEIVED
AUG 31 1982

DIVISION OF OIL, GAS & MINING

Form OGCC-1 be

UG	STA	TE OF UTAH	SUBMIT IN TRIPLICATES (Other instructions on re-	·
		ERVATION COMMISSION	verse side)	5. LEASE DESIGNATION AND SERIAL NO. U-29967
	SUNDRY NOTI	CES AND REPORTS ON als to drill or to deepen or plug back to TION FOR PERMIT—" for such propose	WELLS to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.	OIL GAS OTHER			7. UNIT AGREEMENT NAME
2.	NAME OF OPERATOR			8. PARM OR LEASE NAME
	Shell Oil Company			USA
8.	ADDRESS OF OPERATOR			9. WELL NO.
	P. O. Box 831. Ho	uston, TX 77001, ATTN G	i. M. Johe, 5468 WCK	21-19
4.	LOCATION OF WELL (Report location cl	early and in accordance with any Stat	e requirements.*	10. FIELD AND POOL, OR WILDCAT
	See also space 17 below.) At surface			Wildcat
	1190' FNL & 2490'	FWI Section 19		11. SEC., T., B., M., OR BLK. AND BURYEY OF AREA
	1130 1112 4 2430	THE, SCOTION 15		NE/4 NW/4 Section 19
		1.		T39S-R19F
14.	PERMIT NO.	15. BLEVATIONS (Show whether DF, RT,	GR, etc.)	12. COUNTY OR PARISH 18. STATE
	API 43-037-30803	6279' GR		San Juan Utah
16.	Check Ap	opropriate Box To Indicate Natu	re of Notice, Report, or C	ther Data
	NOTICE OF INTEN	TION TO:	SURSEQU	ENT REPORT OF:
	FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON® CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report results Completion or Recompl	REFAIRING WELL ALTERING CABING ABANDONMENT® of multiple completion on Well etion Report and Log form.)
17.	DESCRIBE PROPOSED OR COMPLETED OPP proposed work. If well is direction nent to this work.) *	ATUS (CPONT) state all pertinent de mations (Clearly State all pertinent de mally drilled, give aubsurface locations	ctalis, and give pertinent dates, and measured and true vertice	etion Report and Log form.) including estimated date of starting any al depths for all markers and zones perti-

Spud at 2:30 PM, 8-23-82. Set 8-5/8" casing at 774'. Cemented w/270 sx Class "H" cement. Drilling at 2149 feet.

SIGNED S - M - Golden	Administrator TITLE Regulatory-Permits	DATE 8-31-82
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

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	VVV	
1	Mor	

STA	TE OF UTAH	SUBMIT IN TRIPLICATE (Other instructions on	re-	
OIL & GAS CONSE	ERVATION COMM	ISSION verse side)	5. LEASE DESIGNATION AND SE	RIAL NO.
			U-29967 6. IF INDIAN, ALLOTTER OR TR	BE NAME
SUNDRY NOTI	CES AND REPOR	TS ON WELLS plug back to a different reservoir. such proposais.)		
Use "APPLICA	TION FOR FERMIT— 10F	such proposals.	7. UNIT AGREEMENT NAME	
OIL GAS OTHER	Dry Hole			ĺ.
NAME OF OPERATOR			8. FARM OR LEASE NAME	
Shell Oil Company	<u> </u>		USA 9. WELL NO.	· · · · · · · · · · · · · · · · · · ·
D O Poy 921 Attn C	M 100 5460 UCV	Houston TV 77001		
P. O. Box 831, Attn G.	learly and in accordance wi	th any State requirements.	21-19 10. FIELD AND POOL, OR WILDO	CAT
See also space 17 below.) At surface			Wildcat	: -{
1190' FNL & 2490'	FWL, Section 19		11. EBC., T., R., M., OR BLK. AND BURYBY OR ARRA	5
			NE/4 NW/4 Section	19
, PERMIT NO.	15. ELEVATIONS (Show who	other DF, RT, OR, etc.)	T39S-R19F 12. COUNTY OR PARISH 18. 8	TATE
, , , , , , , , , , , , , , , , , , , ,	6279' GR	·	San Juan Ut	ah
Check As	propriate Box To India	ate Nature of Notice, Report, o	or Other Data	
NOTICE OF INTEN	**************************************		BEQUENT REPORT OF:	
	FULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL	
	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CABING	2
	ABANDON*	SHOUTING OR ACIDIZING	ABANUONMENT*	X
REPAIR WELL	CHANGE PLANS	(Other)	sults of multiple completion on We	-[11.
(Other)		Completion or Rec	completion Report and Log form.)	
. DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction	ERATIONS (Clearly State all ponally drilled, give subsurfa	ertinent details, and give pertinent dice locations and measured and true vi-	ertical depths for all markers and a	ones perti-
nent to this work.) *				
	* *			
Verbal approval gi	iven to P&A			
10,24, app. 0,4, g.	i ven co ran			
Set plugs as follo	ows on 9-4-82 as	per attached prognosis:		T.
Plug #1 205	58'-2258' 70 s	x Class "H"		•
Plug #2 67		x Class "H"		p ²
Surface	10 s	X		2
Released rig @ 4:0	10 DM 0_1_82			
hereased rig e 4.0	75 FM 3-4-02.			
1	2			6.
	•			
	:		•	
				;
18. I hereby certify that the foregoing	is true and correct	Administrator	DATE September	7 100
— (1)			aeotember	· / IYX
SIGNED DAIN, Je		E Regulatory-Permits	DATE OF COMMON	7, 150
(This space for Federal or State o		E Regulatory-Permits	DATE SOF SOMEST	7, 150

Plug and Abandonment Procedures Shell Fed 21-19

8 5/8" 24# @ 774'-Surface Cement to surface , 7 7/8" Hole to 2361

- (1) Trip in the hole open ended with drill pipe
- (2) Circulate mud, bottoms up.
- (3) Set the following plugs with Class "H" cement 2 1/2-3 hours estimated pumpability. Use balanced plug method. Pump 10 bbs of a fresh water preflush, and adequate fresh water behind to balance the plug.

 \pm 2155' - Desert Creek \pm 180' of fill up across the formation 50 sack minimum based on 7 7/8" Hole verify formation top with logs. Base of the plug at 2245±' and the top of the plug at 2065±'.

774' casing shoe - 200+ of fill up 70 sack minimum 1/2 in and 1/2 out of the surface casing

Surface 10 sack plug

- (4) Use caliper log to estimate hole size
- (5) Cut surface casing at least four feet below ground level. Weld on plate with well name and operator as marker.
- (6) Inform state of Utah Natural Resources & Energy. Oil, Gas & Mining

Phone Numbers:

Ronald J.	Fir	th	_	Eng	inee	er
Offic	e:	80	1-	533	-577	1
Home:		80	1-	571	-606	8

Cleon B. Feight - Director Office: 801-533-5771 Home: 801-466-4455

Also need to contact mms. for concurrance of PZA procedure.

Recommended:	K. Wilcken	Approved:	D. D Agestino.
۲.۶۰	3. 4		Q

SUBMIT IN DUPLICATE*

			STATE OF UTAH	SUDMI
OIL	&	GAS	CONSERVATION COMMIS	SION

_						_
	LEASE	DESIGNAT	ION	AND	SERIAL	NO

	OIL & G	AS CONSER	VATION CON	MMISSION	reverse	side) 5. LEASE DE	SIGNATION AND SERIAL NO.
WELL CO	OLADI ETION	AL OD DECC	NADI ETIONI	DEDODE AL	15.1.00	U-299(O/ , ALLOTTEE OR TRIBE NAME
a. TYPE OF W			MPLETION	KEPORI AN	ID LOG		
b. TYPE OF CO	W	IL GAS VELL WELL	DRY X	Other		7. UNIT AGR	CEMENT NAME
NEW WELL	WORK D	EEP- PLUG BACK	DIFF.	Other	PICIS	S FARM OR	LEASE NAME
. NAME OF OPER	ATOR			1/4/18/24	305	TIVE OF	
Shell 0	1 Company	·			 		
D O R	N 931 A+4	to G M Tol	be, 5468 WCk accordance with ar L, Section 1	/ Houghon	$\frac{\partial \mathcal{E}_{P}}{\partial \mathcal{E}_{P}} \frac{1}{2} \Omega$	190 10.	D POOL, OR WILDCAT
LOCATION OF W	ELL (Report loca	tion clearly and in	accordance with an	ny State requirement	1X //UU ##	Windc	at
At surface	1190' FNL	& 2490' FW	L, Section 1	19 <i>011. 6</i>	VISION	OF TI. SEC., T.,	R., M., OR BLOCK AND SURVEY
At top prod. i	nterval reported	below		, , ,	45 & M	/N/N/D T39S-	NE/4 NW/4 Section
At total depth	l'					W/VG	
			14. PERMIT NO	DATE	ISSUED	12. COUNTY PARISH	•
DATE SPUDDED	16. DATE T.D.	REACHED 17. DA	TE COMPL. (Ready t	to prod.) 10 mrs	ANAMAN (DA	San Juai	1 Utah 1 19. ELEV. CASINGHEAD
8-23-82	9-1-82	P&	, ,	10. ELI	6279 GR	REB, RT, GR, ETC.)	
. TOTAL DEPTH, M	D & TVD 21. P	LUG, BACK T.D., MD	22. IF MUI HOW M	LTIPLE COMPL., MANY*	23. INTER DRILLI		LS CABLE TOOLS
. PRODUCING INT	ERVAL(S), OF TH	IS COMPLETION-TO	OP, BOTTOM, NAME (MD AND TVD)*		<u> </u>	25. WAS DIRECTIONAL SURVEY MADE
TYPE ELECTRIC	AND OTHER LOGS	S RUN				1	27. WAS WELL CORED
H/Sonic/S	SP/GR/CAI	DC/CNL BLL	MEST (S	ample	\rightarrow		yes
CASING SIZE	I WENTOWN I		SING RECORD (Rej				
5 ¹¹ /	WEIGHT, LI	40		OLE SIZE	CEME	NTING RECORD	AMOUNT PULLED
- 5/8"		774		27	70 sx C1	ass "H"	
		LINER RECOR	<u> </u>	<u> </u>	1 20	MIDING PEG	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30.	DEPTH SET (M	
PERFORATION P	FCORD (Internal	size and number)					
x = tronariote h	LUND (1866/VIII)	size and number)	•			FRACTURE, CEMEN	
AIA .					L (MD)	AMOUNT AND KIN	D OF MATERIAL USED
NA				NA			
			PRO	DUCTION			
TE FIRST PRODU	CTION PRO	DUCTION METHOD	(Flowing, gas lift, p		type of pump) WELL	STATUS (Producing or
P&A	L NOVERS STREET				·		
31 (31)	HOURS TESTE	CHOKE SIZI	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS-MCF	WATER—BBI	GAS-OIL RATIO
W. TUBING PRESS	. CASING PRESS	SURE CALCULATED		GAS-MCF.	<u> </u>	/ATER—BBL.	OIL GRAVITY-API (CORR.)
DISPOSITION OF	GAS (Sold, used f	or fuel, vented, etc		1		ক্ষিপ্তক আক্রেম	ISED RY
						AMOL WILLES	
		· · · · · · · · · · · · · · · · · · ·					
I hereby cores	See atta	ached drill	ing history	-1			
- werent cetti	<u> </u>	orna and attached	information is com	piete and correct a Administrato	s determined	from all available r	ecords
5. LIST OF ATTAC	HOURS TESTE CASING PRESS GAS (Sold, used f	CHOKE SIZE CALCULATER 24-HOUR RA or fuel, vented, etc.	PROD'N. FOR TEST PERIOD OIL—BBL. ing history information is comp	DEPTH INTERVA	type of pump GAS—MCF: W	AMOUNT AND KIN WELL shu WATER—BBL TEST WITNES	STATUS (Producing or t-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)

NSTRUCTIONS

or both, pursuant to applicable Federal and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

In of file of the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

or Federal office for specific instructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval services, bottomics and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional of such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

CERS	TOP	DPTH TRUE VERT. DEPTH	Surface 1116 2140 2158	11.1.1	**************************************		 *
GEOLOGIC MARKERS		MEAS. DEPTH				 · · · · · · · · · · · · · · · · · · ·	
38. GEOI		A M M M	Cedar Mesa Upper Hermosa P-50 Shale Desert Cercek	P-40 Shale Pre-Desert Crk Total Depth			
NTS THERROF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING PEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		Core #1 2131 - 2149' Rec 28' Ismay Core #2 2165 - 2184' Rec 9' Desert Creek	DST #1 2132' - 2361' Recovered drilling mud			
MARY OF POROUS ZONES: 8HOW ALL IMPORTANT SONES OF POROSITY AND CONTENTS THEREOF; DEFTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	BOLLOM				:		
COUS ZONES: RTANT ZONES OF PO TESTED, CUSHION	TOP						
87. SUMMARY OF POROUS ZONES: 8HOW ALL IMPORTANT ZONES OF DEPTH INTERVAL TESTED, CUSH	FORMATION						

Shell-USA 21-19 (WC) Brk Signal #79 2430' Desert Creek Test \$ 23M/\$220M WI - 60% GR 6279' 16" csq @ 40'

8-23-82 Status: RURT. 95% moved; 50% rigged up.

UTAH

MONUMENT UPLIFT
Shell-USA 21-19
(WC) Brk Signal #79
2430' Desert Creek Test
\$ 34M/\$220M
WI - 60%
GR 6279'
16" csq @ 40'

100/45//1/7-1/2. Status: Drilling. Mud: (.447) 8.6 x 29

Spud at 2:30 PM, 8-23-82

Location: 1190' FNL & 2490' FWL

Section 19, T39S-R19E San Juan County, Utah

AUG 24 1982

UTAH

MONUMENT UPLIFT
Shell-USA 21-19
(WC) Brk Signal #79
2430' Desert Creek Test
\$ 44M/\$220M
WI - 60%
GR 6279'
16" csq @ 40'

300/200//2/7-1/2. Status: Drilling. Dev: $1/2^0$ at 250'

AUG 55 1842

TAH

MONUMENT UPLIFT
Shell-USA 21-19
(WC) Brk Signal #79
2430' Desert Creek Test
\$ 58M/\$220M
WI - 60%
GR 6279'
16" csq @ 40'

771/471//3/7-1/2. Status: Drilling. Dev: 1 at 464'

AUG 23 132

UTAH

MONUMENT UPLIFT
Shell-USA 21-19
(WC) Brk Signal #79
2430' Desert Creek Test
\$ 91M/\$220M
WI - 60%
GR 6279'
16" csg @ 40'
8-5/8" csg @ 774'

775/4//4/7-1/2. Status: Nipple up. Ran 20 jts 8-5/8" csg to 774'. Cmt w/270 sx Class "H" w/2% CaCl2, 1/4#/sx Flocele. Did not get cmt to surface. Did 1" job w/50 sx Class "H" w/2% CaCl2, 1/4#/sx Flocele.

138 17 182

8-28-82 Shell-USA 21-19 1121/346//5/7. Status: Drilling. Dev: 1/20 at 775' (WC) Brk Signal #79 2430' Desert Creek Test Mud: 8.6 x 37 \$126M/\$220M WI - 60%8-29-82 1661/540//6/7. Status: Drilling. Dev: 1 at 1285' GR 6279' 16" csq @ 40' 8-5/8" csq @ 774' Mud: 9 x 34 8-30-82 2088/427//7/7. Status: Circ. samples. Dev: 10 at 1817' Mud: (.473) 9.1 x 32 x 11 **UTAH** MONUMENT UPLIFT 2149/61//8/7. Status: Building volume. She11-USA 21-19 Core #1 - 2121 to 2149' - cut 28', rec. 28'. (WC) Brk Signal #79 Lost approx. 200 bbls mud $\overline{}$ losing mud at report time. Dev: $1-1/2^{\circ}$ at 2121'. 2430' Desert Creek Test \$138M/\$220M WI - 60% Mud: (.473) 9.1 x 33 x 9 GR 6279' 16" csq @ 40' AUG 3 1 1982 8-5/8" csq @ 774' UTAH MONUMENT UPLIFT 2233/84//9/7. Status: Drilling. She11-USA 21-19 (WC) Brk Signal #79 Core #2 2165-2184'. Cut 19', rec. 10'. Mud: (.452) 8.7 x 34 x 8 2430' Desert Creek Test \$149M/\$220M WI - 60% GR 6279' 16" csq @ 40' SEP 1 1982 8-5/8" csg @ 774' UTAH MONUMENT UPLIFT Shell-USA 21-19 2354/121//10/7. Status: Logging. Ran DIL/Sonic/SP/GR/CAL; FDC/CNL; DLL/MFSL. (WC) Brk Signal #79 Dev: 1° at 2354' 2430' Desert Creek Test \$169M/\$220M Mud: (.461) 8.8 x 36 x 9 WI - 60% 整体 人名克拉 GR 6279' 16" csg @ 40' 8-5/8" csq @ 774' UTAH MONUMENT UPLIFT Shell-USA 21-19 Corrected 2361/0//7.5/11. Status: RIH w/DST Tool. Ran sidewall sample gun & RFT tool. Circ & cond (WC) Brk Signal #79 mud. Make up DST tool & RIH. 2430' Desert Creek Test Mud: (.452) 8.7 x 35 x 8.6 \$213M/\$220M WI - 60% GR 6279'

SEP 3 1982

MONUMENT UPLIFT

16" csq @ 40' 8-5/8" csq @ 774'

UTAH

MONUMENT UPLIFT
Shell-USA 21-19
(WC) Brk Signal #79
2430' Desert Creek Test
\$ M/\$220M
WI - 60%
GR 6279'
16" csg @ 40'
8-5/8" csg @ 774'

9-4-82 2361/0//12/7.5. Status: Circ for Plugs. Ran DST.

Mud: (.452) 8.7 x 35 x 8.6

P&A 2361/0//13/7.5. Status: Rig released. Set plugs as follows: Plug #1, 2058' to 2258', 70 sx Class "H", Plug #2, 674' to 874', 80 sx Class "H". Set 10 sx plug at surface. Release rig @ 4:00 PM, 9-4-82. Cost: \$241,466

CORE ANALYSIS RESULTS

for

SHELL OIL COMPANY

SHELL FEDERAL SUN 21-19 WELL MONUMENT UPLIFT FIELD SAN JUAN COUNTY, UTAH



DIVISION OF OIL, GAS & MINING

CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

PAGE NO. 1

SHELL OIL COMPANY SHELL FED. SUN 21-19 MONUMENT UPLIFT SAN JUAN COUNTY FORMATION : DESERT CREEK

DRLG. FLUID: WBM

LOCATION : NE, NW SEC. 19-395-19E

STATE : UTAH

DATE : 8-31-82 FILE NO. : RP-3-3228

ANALYSTS : GGIDS ELEVATION: 6260 GL

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEOTH	PERM. TO	AIR (MD) VERTICAL	POR.	BLUID OIL	SATS. NATER	GR. DNS.	DESCRIPTION
1	2121-22	0.01		11.7	0.0	88.8	2.75	DOL BRN VEXLN/RTHY LM STY
2	2122-23	0.11		14.0	0.0	86.7		DOL BRN VEXLN/RTHY
3	2123-24	0.17		11.7	0.0	90.9		DOL BRN VEXLN/RTHY
4	2124-25	0.08	14.5	14.4	0.0	83.9	2.88	DOL BRN VEXLNIRTHY LM
5	2125-26	<0.01		2.2	0.0	76.8		LM GRY VEXLN BOSS VSL/VUG
6	2126-27	0.01		4.4	12.2	73.1		LM GRY VFXLN FQSS VSL/VUG
7	2127-28	<0.01	* * * * * * * * * * * * * * * * * * * *	2.0	21.1		2.69	LM GRY VEXLN FOSS VSL/VUG
8	2128-29	<0.01	•	2.6	0.0	81.4		LM GRY VEXLN FOSS VSL/VUG
9	2129-30	<0,01		2.7	0.0	85.8		LM GRY VEXLN BOSS VSL/VUG
10	2130-31	<0.01		1.1	0.0	47,2	2.75	LM GRY VEXLN FOSS VSL/VUG STY
11	2131-32	0.08		12.3	7.4	87.4		DOL BRN VEXLN LM
12	2132-33	0.03		10.6	0.0	89,5		DOL BRN VEXLN LM
13	2133-34	<0.01		2.6	0.0	52.0	2.70	LM GRY VEXLN
. 14	2134-35	<0.01		1,1	9.7	38.7		LM GRY VEXUN
15	2135-36	<0.01		2.4	8,9	80.5		LM DKGRY VEXLN SEVSHE
1 6	2136-37	<0.01		0.9	7.6	75, 7	2.73	LM DKGRY VEXLN SL/SHL
17	2137-38	<0,01		2.8	45.9	45.9		LM DKGRY VEXLN SL/SHL
18	2138-39	<0.01		1.6	60.5	26.9	,	SHL BLK VEGRN LM
19	2139-40	<0.01		0.8	59.8	29.9	2.66	SHL BLK VEGRN LM
20	2140-41	<0.01		2, 3	54.7	36,•4		SHL BLK VEGRN LM
21	2141-42	<0.01		2.7	46.1	46.1	,	SHL BLK VEGRN LM
22	2142-43	50. 01		0.7	48.9	40.8	2.64	SHL BLK VEGRN LM
23	2143-44	<0.01	- :	1,7	74.0	12,3		SHL BLK VEGRN LM
24	2144-45	<0.01		2.3	62.9	27.0		SHL BLK VEGRN LM
25	2145-46	<0.01		0.7	75.3	12.6	2.64	SHL BLK VEGRN LM

CORE LABORATORIES, INC. Petroleum Reservoir Engineering

PAGE NO. 2

SHELL OIL COMPANY SHELL FED. SUN 21-19 MONUMENT UPLIFT SAN JUAN COUNTY FORMATION : DESERT CREEK

DRLG. FLJID: WBM

LOCATION

: NE, NW SEC. 19-395-19E

STATE : UTAH

DATE : 8-31-82 FILE NO. : RP-3-3228

ANALYSTS : GGIDS ELEVATION: 6260 GL

CONVENTIONAL CORE ANALYSIS

SAMP.	DEPTH	PERM. TO	ATR (MD) VERTIGAL	POR. FLD.	PLUID OIL	SATS. NATER	GR. DNS.	DESCRIPTION
T 26	2146-47	<0.01	and the last last last and and	3.2	39.8	53.1	and mile tond mile	SHL BLK VFGRN LM
27 28	2147 - 48 2148-49	<0.01 <0.01		1.4	67.8 57.9	15.1 33.1	2.64	SHL BLK VEGRN
29	2149-2165 2165-66	5 <0. 01		3,9	0.0	79,2		DRILLED LM GRY VEXLN
30	2166-67	<0.01		0.9	0,0	48.6		LM GRY VEXLN
31 32	2167 - 68 2168 - 69	<0.01 <0.01	***	0,8 0,6	0.0 0.0	22.5 33.2	2.71	LM GRY VEXLN STY LM GRY VEXLN
33	2169-70	<0.01		1.0	0,0	21.6	. 74	LM GRY VEXLN STY
34 35	2170 - 71 2171 - 72	<0.01 <0.01		7.2 6.1	14.0 11.8	72.1 60.7	2.71	LM GRY VEXLN VSL/VUG STY LM GRY VEXLN VSL/VUG STY
36 37	2172-73 2173-74 2174-2184	0.01		6.8 9.0	1.5 0.9	84.3 82.7	2.70	LM BRN VFXLN VSL/VUG LM BRN VFXLN VSL/VUG CORE LOSS

Boyle's Law Helium Porosity run on samples with grain density.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions excepted; but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

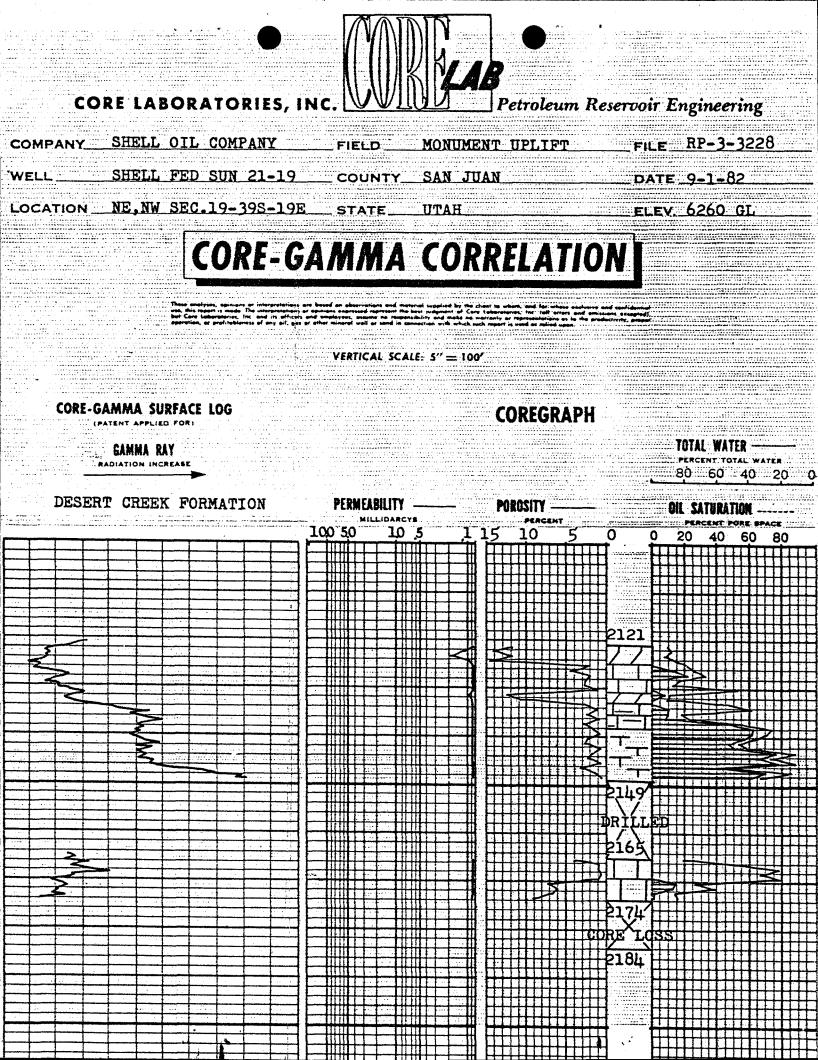
CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

JOB NO.	29-3-32	228	
FORMATION	DESERT	CREEK	
DEPTH INTERVAL	2121		2149
INTERVAL THICKNESS (PEET)	28		
FEFT INCLUDED IN AVERAGE	28	,	
TOTAL PERMEABILITY	0.70		
AVERAGE PERM ARITHMETIC	0.03		
AVERAGE PERMEABILITY GEOMETRIC	0.01		
TOTAL PORMSITY	117.5		
AVERAGE POROSITY	4.2		
AVERAGE BIA-F	325.6		
TOTAL OIL SATURATION	760.6		
SATURATION ARITHMETIC AVER.	27.2		
TL SATURATION POR AVER.	11.6		
TOTAL WATER SATURATION	1583.9		
VATER SAT. ARTTHMETTE AVERAGE	56.6		
VATER SAT. POR. AVER.	75.2		

JOB NO.	39-3-3228
FORMATION	DESERT CREEK
DEPTH INTERVAL	2165 2174
INTERVAL THICKNESS (BEET)	9
FEET INCLUDED IN AVERAGE	9
TOTAL PERMEABILITY	0.11
AVERAGE PERM ARITHMETIC	0.01
AVERAGE PERMEABILITY GEOMETRIC	
TOTAL POROSITY	36.3
RAGE POROSITY	4.0
AVERAGE B/A-E	312.9
TOTAL OIL SATURATION	28.2
OIL SATURATION ARITHMETIC AVER.	3.1
OIL SATURATION POR. AVER.	5.3
TOTAL WATER SATURATION	504.9
WATER SAT. ARITHMETIC AVERAGE	56.1
WATER SAT. POR. AVER.	72.1

2121 - 2149 Non-productive due to low permeability 2165 - 2174 Non-productive due to low permeability

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions excepted represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.



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NE

21-19 WELL NO.

TESTED INTERVAL

SHELL OIL COMPANY NAME

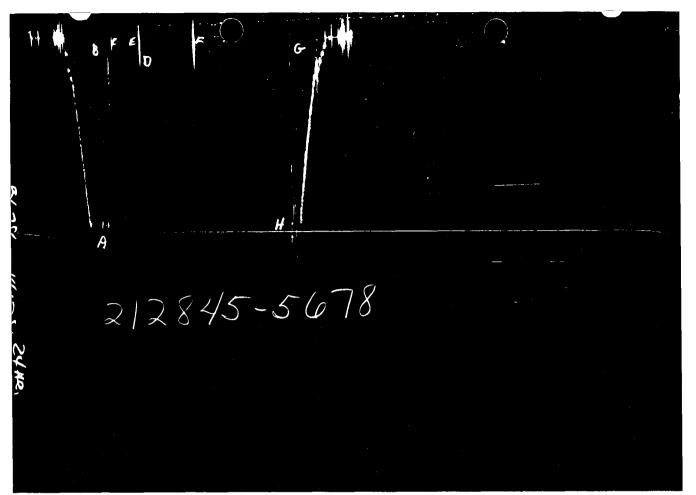


DIVISION OF OIL, GAS & MINING



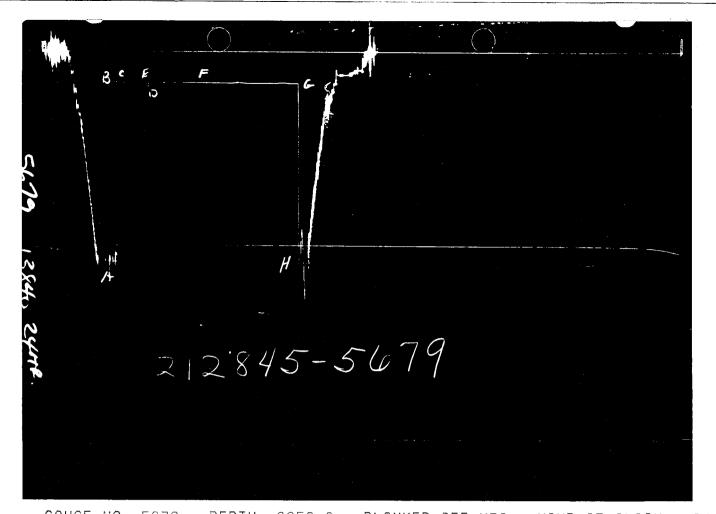
TICKET NO. 21284500 13-SEP-82 FARMINGTON

FORMATION TESTING SERVICE REPORT



GAUGE NO: 5678 DEPTH: 2110.5 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE	T I REFORTED	ME	TYPE
А	INITIAL HYDROSTATIC	972.2			
В	INITIAL FIRST FLOW	39.1	10.0	10.0	
С	FINAL FIRST FLOW	41.7	12.0	12.0	F
С	INITIAL FIRST CLOSED-IN	41.7	C1 D	6.2. 6	
D	FINAL FIRST CLOSED-IN	64.7	61.0	60.8	
E	INITIAL SECOND FLOW	43.4	100.0	1000	_
F	FINAL SECOND FLOW	43,4	120.0	120.3	F
F	INITIAL SECOND CLOSED-IN	43.4	224.4	210 2	
G	FINAL SECOND CLOSED-IN	46.6	230.0 	216.2	
Н	FINAL HYDROSTATIC	953.3			



GAUG	E NO: <u>5679</u> DEPTH: <u>2356.0</u>	BLANKED OFF: YE	<u>ES</u> HOUR	OF CLOCK	<u>24</u>
ID	DESCRIPTION	PRESSURE REPORTED CALCULATED	TIA REPORTED I	YE CRLCULATED	TYPE
А	INITIAL HYDROSTATIC	1082.1			
В	INITIAL FIRST FLOW	150.3	10.0	10.0	_
С	FINAL FIRST FLOW	154.6	1 C . U	12.0	F
С	INITIAL FIRST CLOSED-IN	154.6	C1 0	0.0	
D	FINAL FIRST CLOSED-IN	178.6	61.0	60.8	C
E	INITIAL SECOND FLOW	155.7	100.0	100.0	_
F	FINAL SECOND FLOW	157.8	120.0	120.3	F
F	INITIAL SECOND CLOSED-IN	157.8	222.0	010.0	
G	FINAL SECOND CLOSED-IN	161.0	230.0	216.2	C
Н	FINAL HYDROSTATIC	1065.2			

"确我的自己的行人"的身界

TICKET NUMBER: 21284500
POTE 0 2 02 TECT NO 4
DATE: <u>9-3-82</u> TEST NO: <u>1</u>
TYPE DST: OPEN HOLE
THE BOTT OF ENTITION
HALLIBURTON CAMP:
FARMINGTON
TESTER: DELL GUNN
TESTER:
WITNESS:
PRILLING CONTROLLOR
DRILLING CONTRHCTOR:
BRINKERHOFF #79
22::-:
SAMPLER DATA
Psig AT SURFACE: 32
cu.ft. OF GAS:0.00
cc OF WATER:
cc OF MUD: 650
TOTAL LIQUID cc:650
CUCUION DOTO
CUSHION DATA TYPE AMOUNT WEIGHT
THE MISSIT WEIGHT
N A DEILLING ELHID
ILY DRILLING FLUID. 본싍
RÉD N
SUF
HA HA
UND LEVEL.

	<u> </u>	ING DEVICE:	GAS	LIQUID	TICKET NO: 21284500
TIME	CHOKE SIZE	PRESSURE PSI	RATE MCF	RATE BPD	REMARKS
9-3-82					
0100					ON LOCATION-TRIP OUT OF HOLE
					WITH DRILL PIPE
0230					PICKED UP AND MADE UP TOOLS
0400					TRIP IN HOLE WITH DST #1
0545					ESTABLISHED LEAK IN DRILL PIPE
					TRIP OUT OF HOLE
					FOUND LEAK IN PUMP OUT SUB
					TOOK SUB OUT OF STRING
0825					TRIP IN HOLE WITH DST #1 AGAIN.
1050					ON BOTTOM
1052	ВН	5 OZ.			OPENED TOOL WITH A WEAK BLOW-2"
					IN BUCKET.
1057	ВН	6			WEAK BLOW-6" IN BUCKET.
1104	ВН	6			CLOSED TOOL WITH A WEAK BLOW-6"
					IN BUCKET.
1205	ВН	4			OPENED TOOL WITH A WEAK BLOW-2"
					IN BUCKET.
1210	ВН				VERY WEAK BLOW-1" IN BUCKET
1220	ВН				SAME
1230	ВН				VERY WEAK BLOW-1/2" IN BUCKET
1240	вн				SAME
1248					DEAD
1405					CLOSED TOOL-DEAD
1738					DROPPED BAR TO REVERSE
1755					OPENED BYPASS-PULLED OFF
					BOTTOM-TRIP OUT OF HOLE.
2130					JOB COMPLETED
-					

TICKET NO: 21284500

CLOCK NO: 14128 HOUR: 24



GAUGE NO: 5678

DEPTH: 2110.5

REF	MINUTES	PRESSURE	ΔΡ	<u>t ×∆t</u> t +∆t	log <u>t+∆t</u> ∆t	REF	MINUTES	PRESSURE	ΔP	<u>t×∆t</u> t+∆t	log t+£
		FIRST	FLOW								
			,								
B 1		39.1	.								
3			-0.3								
4		39.4 40.1	0.7 0.6								
5			0.4								
6			0.4			1					
C 7		41.7	0.8								
	F	IRST CL	.OSED-IN								
C 1	0.0	41.7									
2			4.2	3.0	0.598						
. 3		46.9	5.2	4.8	0.397						
. 4		49.2	7.5	6.0	0.301						
5			9.6	6.9	0.242						
6		53.5	11.8	7.5	0.204	1					
7			13.5	8.0	0.176						
8		56.7	15.0	8.4	0.155	1					
9			16.7	8.7	0.138						
10 11		59.4 60.6	17.7 18.8	9.0 9.2	0.125 0.114						
12			19.6	9.4	0.114						
13		62.4	20.6	9.6	0.097						
14			21.3	9.7	0.090						
15		63.8	22.0	9.9	0.084	{					
D 16	60.8	64.7	22.9	10.0	0.078						
		SECONE	FLOW								
E 1 F 2	0.0	43.4									
F 2	120.3	43.4	0.0		٠.						
	S	ECOND C	LOSED-II	N							
F 1	0.0	43.4									
F 1			3.2	82.1	0.207						
				9211	3,20,	11					
						11.					
						11					

REMARKS:

TICKET NO: 21284500

CLOCK NO: 13840 HOUR: 24



GAUGE NO: 5679

DEPTH: 2356.0

REI	F	MINUTES	PRESSURE	ΔΡ	<u>t×∆t</u> t+∆t	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	<u>t×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$
			FIRST	FLOW					· · · · · · · · · · · · · · · · · · ·			
В	1	0.0	150.3									
	2	2.0	150.7	0.3								
	3	4.0	151.2	0.5								
	4 5	6.0 8.0	152.6 154.1	1.4 1.5								
	6	10.0	154.7	0.6				÷				
С	7	12.0	154.6	-0.1								
		F	IRST CL	.OSED-IN	l							
C	1	0.0	154.6			!						
	2	4.0	157.8	3.2	3.0							
	3 4	8.0 12.0	161.3 164.4	6.7	4.8	0.398						
	5	16.0	166.8	9.8 12.2	6.0 6.8	0.300 0.243						
	6	20.0	168.7	14.1	7.5							
	7	24.0	170.7	16.1	8.0	0.176						
	8	28.0 32.0	172.1	17.5	8.4							
	9 10	36.0	173.4 174.5	18.8 19.9	8.7 9.0							
	11	40.0	175.4	20.8	9.2							
	12	44.0	176.3	21.7	9.4							
	13 14	48.0 52.0	177.3 177.8	22.7 23.2	9.6							
	15	56.0	177.0	23.6	9.7 9.9	0.090	l					
D	16	60.8	178.6	24.0	10.0							
			SECONE	FLOW					,			
E F	1	0.0	155.7									
F	2	120.3	157.8	2.1								
		SI	ECOND C	LOSED-II	N							
F G	1	0.0	157.8	•								
G	2	216.2	161.0	3.3	82.1	0.207						
							1 1					

REMARKS:

TICKET NO. 21284500

			O.D.	I.D.	LENGTH	DEPTH
	· · · · · · · · · · · · · · · · · · ·					· .
1		DRILL PIPE	4.500	3.826	1646.3	
3		DRILL COLLARS	6.250	2.250	355.0	
50	0	IMPACT REVERSING SUB	6.000	3.000	1.0	2010.0
3		DRILL COLLARS	6.250	2.250	90.0	
5		CROSSOVER	6.000	3.000	1.0	
13		DUAL CIP SAMPLER	5.030	0.870	7.0	
60	0	HYDROSPRING TESTER	5.000	0.750	5.0	2108.5
80		AP RUNNING CASE	5.000	2.250	4.0	2110.5
15		JAR	5.030	1.750	5.0	•
16	v	VR SAFETY JOINT	5.000	1.000	3.0	
70		OPEN HOLE PACKER	6.750	1.530	6.0	2126.0
70		OPEN HOLE PACKER	6.750	1.530	6.0	2132.0
19		ANCHOR PIPE SAFETY JOINT	5.750	1.500	4.0	
5		CROSSOVER	6.000	3.000	1.0	
3		DRILL COLLARS	6.250	2.250	180.0	
5		CROSSOVER	6.000	3.000	1.0	
20		FLUSH JOINT ANCHOR	5.750	3.000	37.0	
81	0	BLANKED-OFF RUNNING CASE	5.750	2.440	4.5	2356.5
		•				
		TOTAL DEPTH				2361.0